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FIG. 1

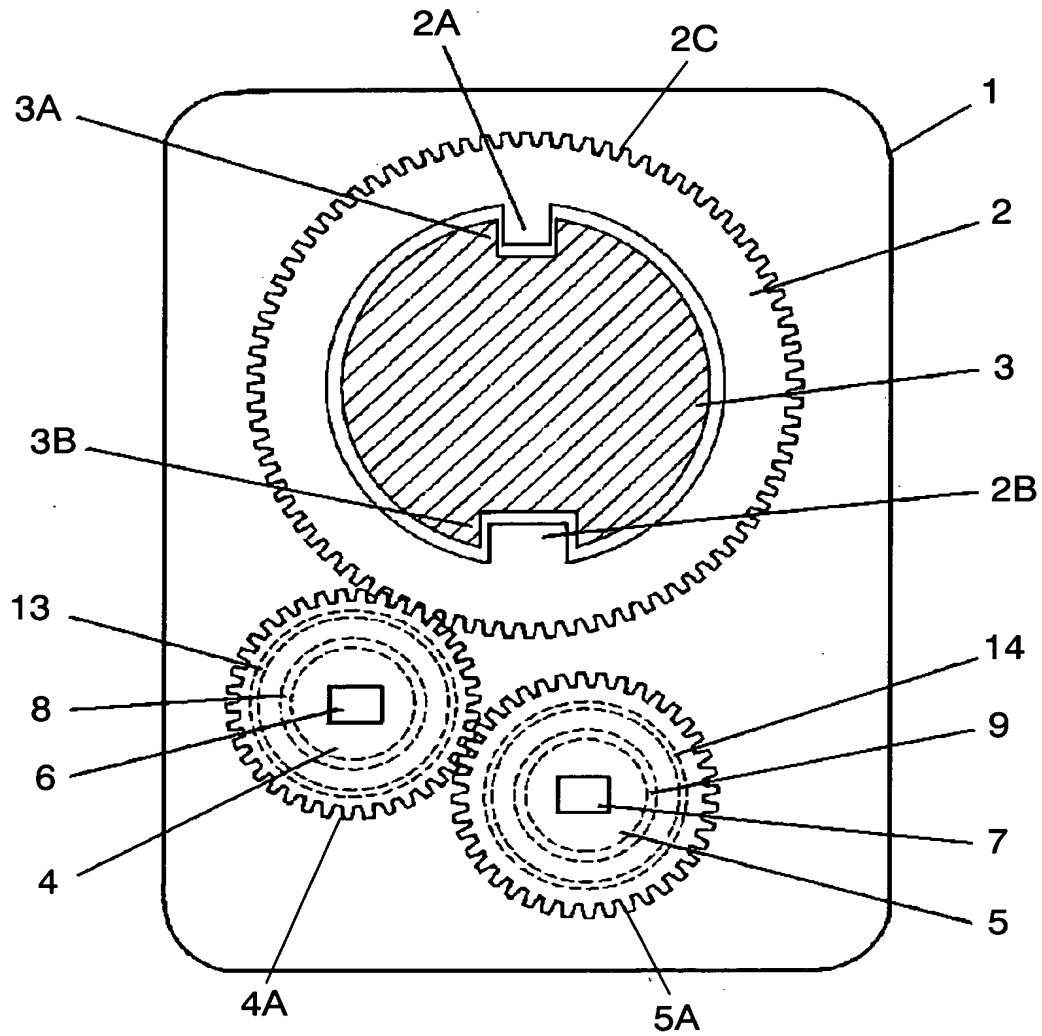
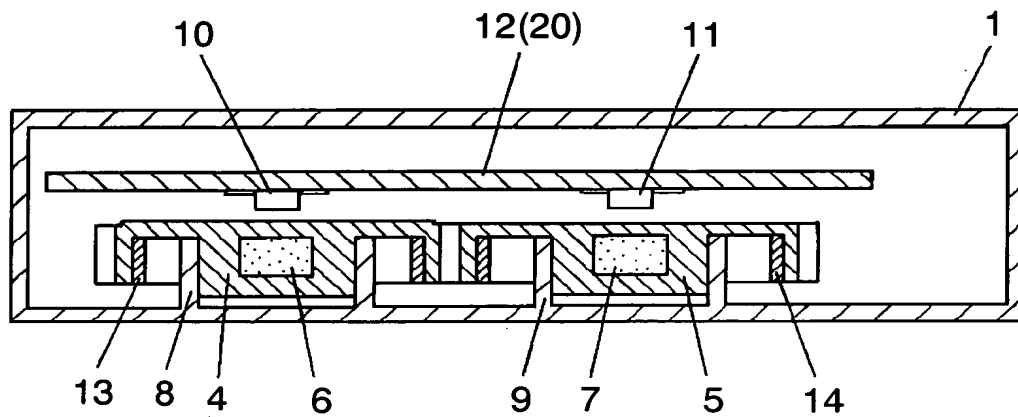


FIG. 2



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FIG. 3

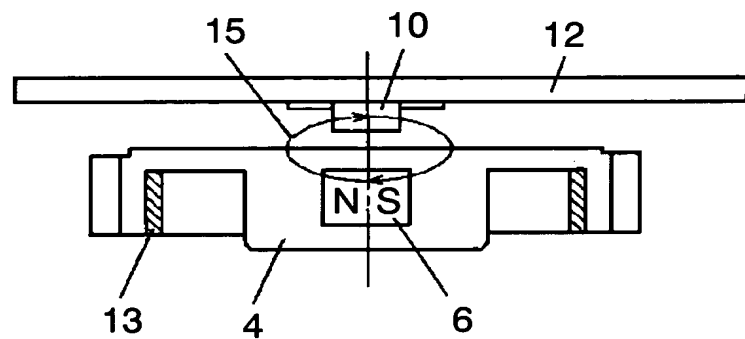


FIG. 4

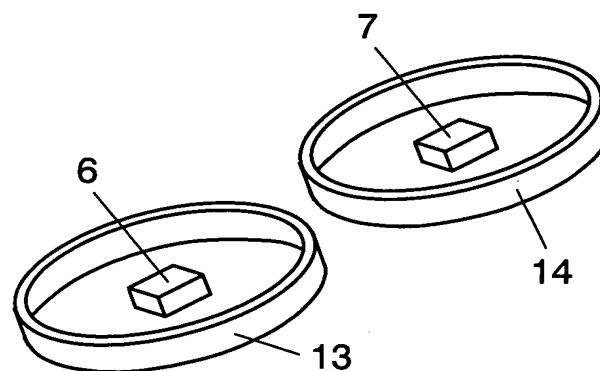


FIG. 5A

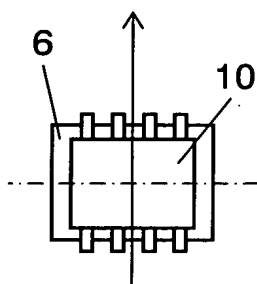


FIG. 5B

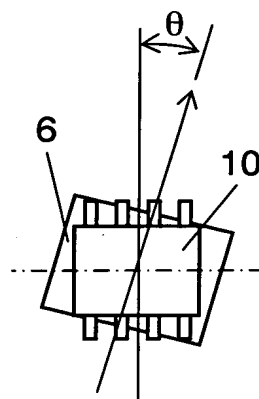
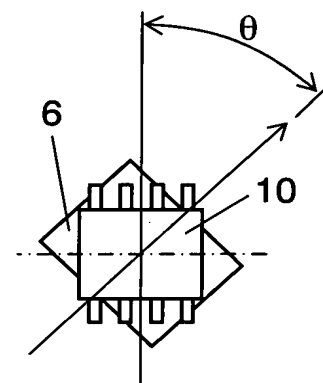


FIG. 5C



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FIG. 6

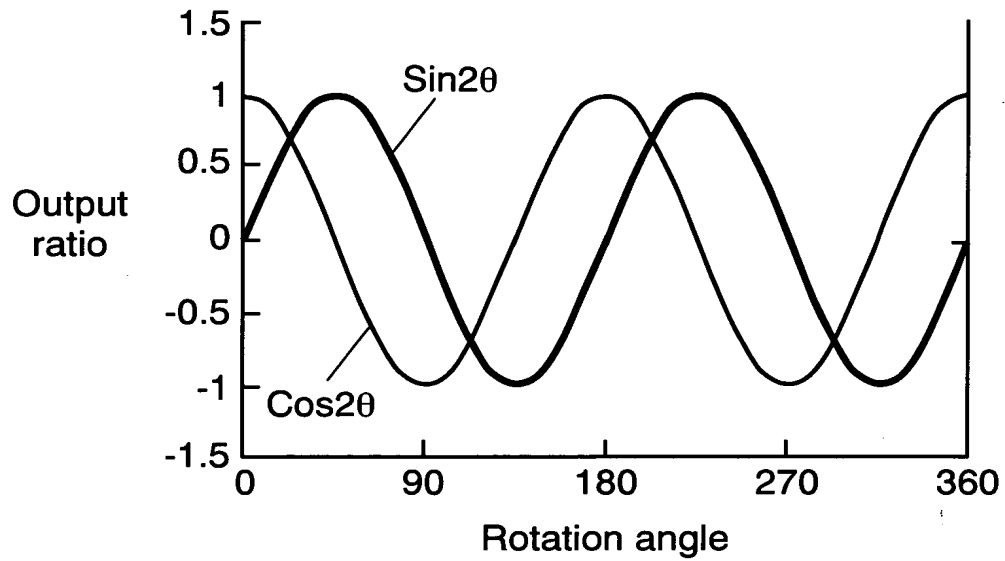


FIG. 7

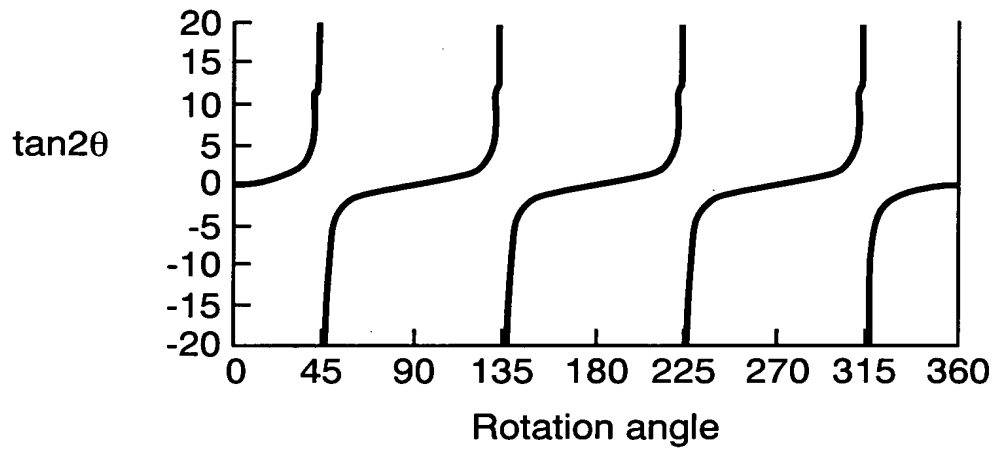
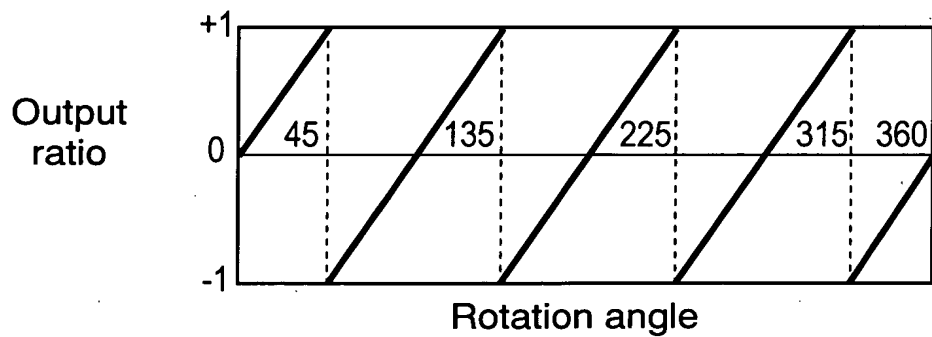


FIG. 8



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FIG. 9

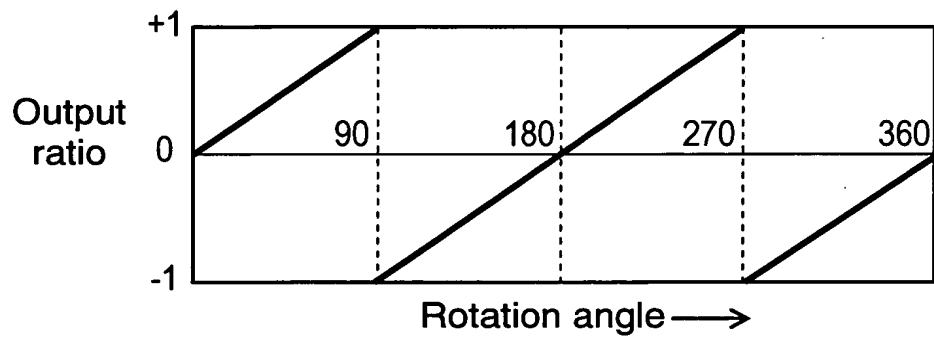
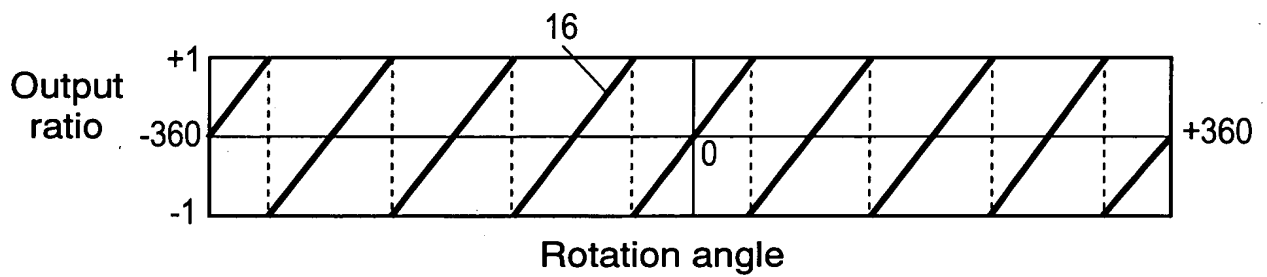


FIG. 10



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FIG. 11

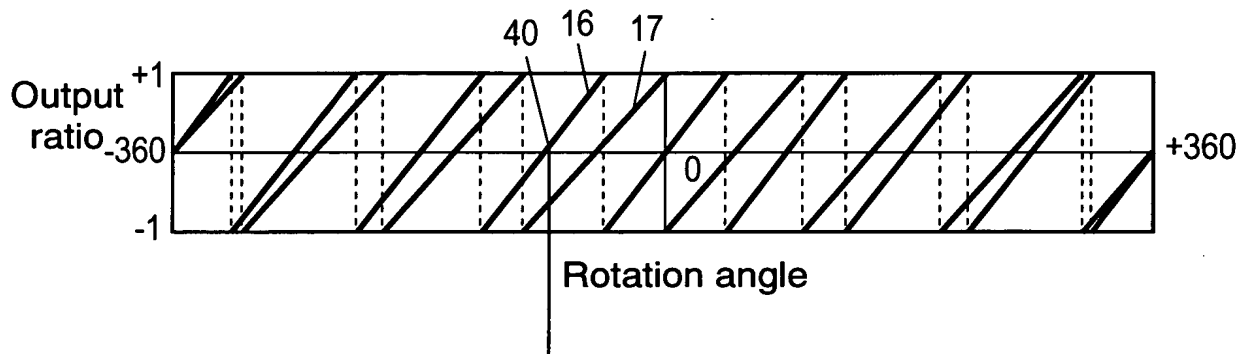


FIG. 12

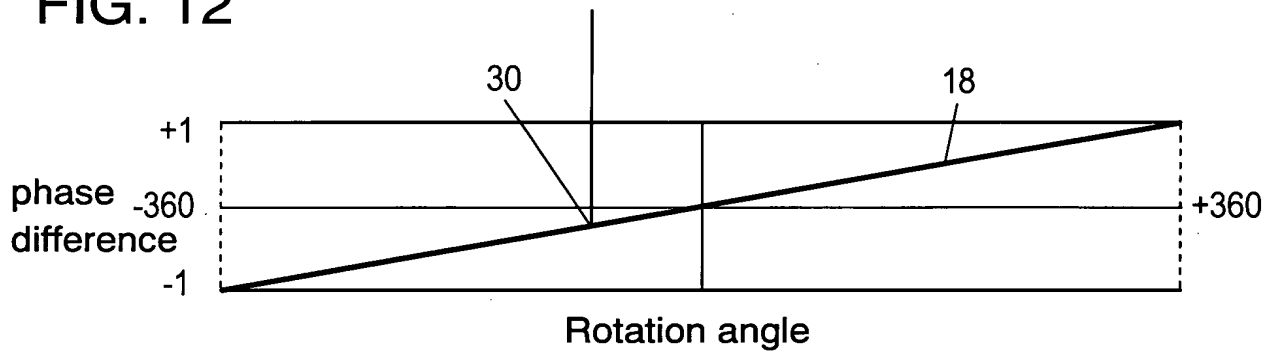


FIG. 13

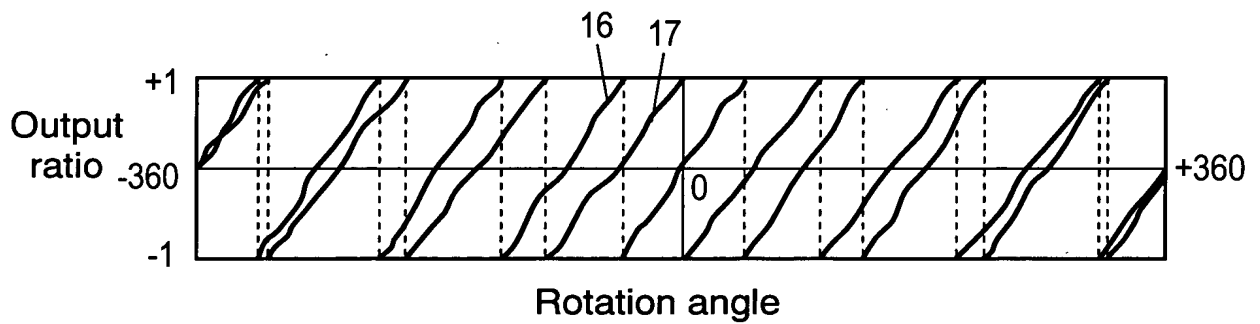
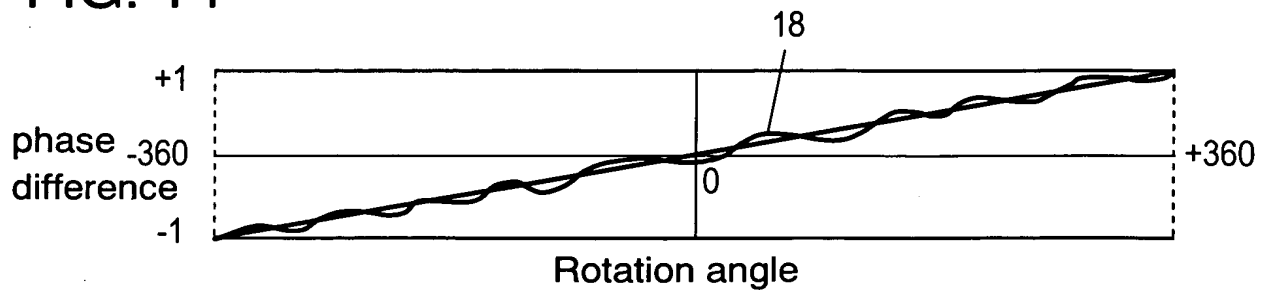


FIG. 14



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FIG. 15

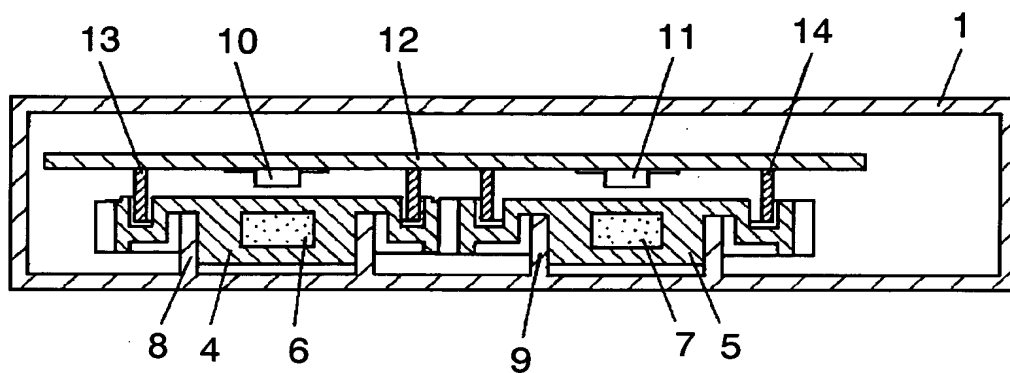
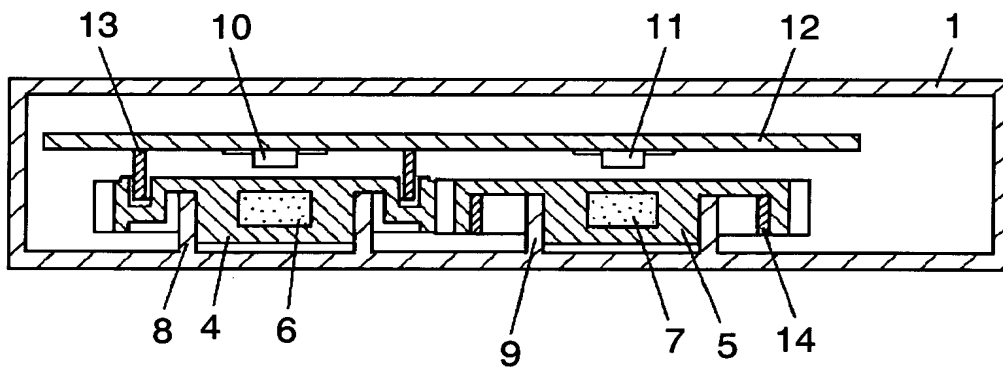


FIG. 16



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FIG. 17

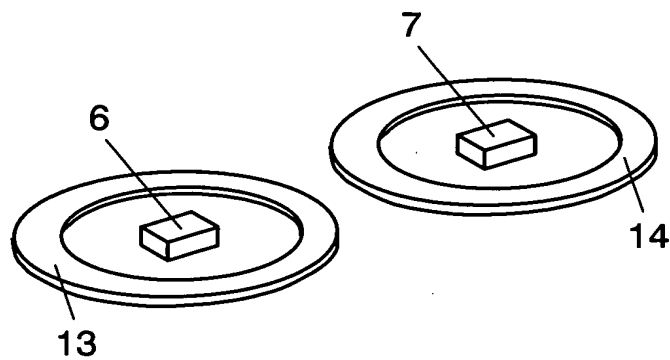


FIG. 18

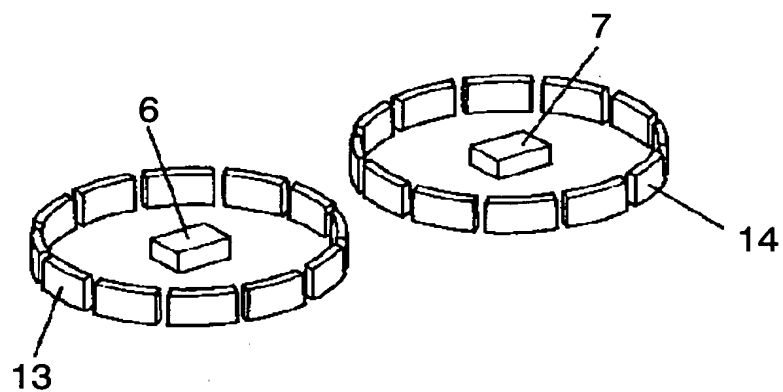
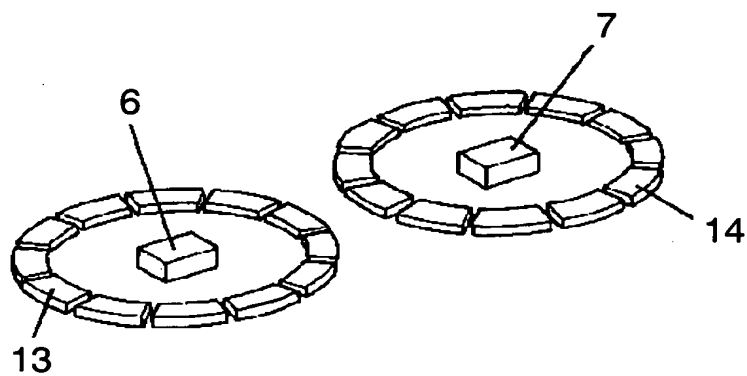


FIG. 19



## Reference marks in the drawings

- 1: case
- 2: main rotator
- 2A, 2B: projection
- 2C, 4A, 5A: gear
- 3: steering shaft
- 3A, 3B: groove
- 4: first detecting rotator
- 5: second detecting rotator
- 6, 7: magnet
- 8, 9: bearing
- 10: first anisotropic magnetic resistance element
- 11: second anisotropic magnetic resistance element
- 12: circuit board
- 13, 14: ferromagnetic body
- 15: magnetic line
- 16: linear segment indicating the rotation angle of rotator 4
- 17: linear segment indicating the rotation angle of rotator 5
- 18: liner segment indicating phase difference between the rotation angles of rotator 4 and rotator 5
- 20: calculator
- 30, 40: point